

Application Number: 09/509,377

Date: August 5, 2005

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Enclosure No. 2

Substitute specification & Listing of claims,
corrected in response to the Notice of
Non-Compliant Amendment dated June 28, 2005

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09/509,377	08/28/2000	Sergey Matasov		9553

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

Endoscope with disposable cartridges for the invagination of endoscope endoscopic tube.

Description of invention.

This is the continuation of application PCT/LV08/00006 based on the priority applications P-97-190 from 03.10.97 (LV) and P-98-188 from 23.09.98 (LV).

BACKGROUND OF THE INVENTION.

1. Field of the Invention.

The invention relates to the field of medicine, namely to colonoscopy and enteroscopy, but can also be used for industrial endoscopes.

2. Description of Background Art.

The common feature of the endoscope, proposed in present application and of endoscopes according to known patents is a tube, eversible under fluid pressure. The inflated and everted tube invaginates an endoscope tube into explored channel and therefore was named by me as invaginator. The exploitation of invaginator is effective in case when it everts close to the objective and does not cover the latter.

The fluid pressure causes not only inflation and eversion of invaginator, but also its tight engagement with the endoscope tube. As a result of this engagement an everted part of invaginator becomes twice shorter than the endoscope tube.

U.S. Pat. 4,321,915 to Leighton et al., U.S. Pat. 4,816,331 to Kramann and U.S. Pat. 5,260,384 to Bob et al., whose disclosures are incorporated herein by references, illustrate the attempts to overcome the effect of invaginator's engagement with an endoscope tube.

Invaginator according to the US Pat. 4,321,915 is mono-layered. To remove the double lag of invaginator there is suggested by the periodical change of pressure and vacuum and by extracting of endoscope tube till the moment when its objective coincides with the place of invaginator's eversion. But the investigated